

OEL 915-64

24 September 1964

**MEMORANDUM FOR THE RECORD**

**SUBJECT: Tasks for the Facility**

25X1A

1. Messrs. [redacted] and I discussed the various items which might now be undertaken by the Facility. Our conclusions are as follows:

**Budget Item E - II4 Integrated Maritime Warning**

This task may be accomplished adequately in ORL/Facility and the action sequence should be as follows: a) restatement of the requirements for the equipment; b) a detailed survey of the boats involved - [redacted] c) production of kits tailored for each boat. The present variation among the boats involved makes the survey of each desirable. Each kit will probably be different. The replacement of video amplifiers currently under design by [redacted] are expected to be part of the end installation kit.

**F-41 Automatic Modulation Recognition and Presentation**

Some work has been done on this task. The requirement is believed to be an improvement of the presentation to make the determination of the modulation less ambiguous. A certain amount of cut and try between design and operational acceptance can be expected and for this reason this task well suited for the Facility.

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F-1 Upgrading the CS 42 Receiver

The CS 42 mobile set is expected to return soon. The equipment can be reworked to restore its original capabilities. If an improvement in its capabilities, or the use of the equipment in other tasks for which it is now suited, is desired, OPD must specify the functional needs anticipated - so the Facility can take the appropriate action.

F-106 Covert Team SIGINT Instrumentation

It is anticipated that equipment requirements here will be solved in-house primarily by modification of commercial equipment. The specifications are to be prepared by OPD and upon receipt QRL/Facility may start work on this technical task.

2. Of the tasks above, E-114, F-41 can be started now, and F-1 can commence as soon as the CS 42 returns and/or OPD specifies new requirements.

3. The following items were considered but deemed not suitable for the Facility: C-78 HF aperiodic receiver extension to VHF. This extension will probably involve a new receiver design similar to the HF design. In this case the equipment is well suited for competitive contracting. If the extension can be accomplished through modification of the equipment the Facility will be reconsidered.

E-61 EHF systems. Requirement for this equipment is not clear and numerous commercial firms are well suited to operate here when the requirement is fixed. DDP will have to establish the requirement. OPD for functional requirements.

4. Geographer tests. This program is not believed to be in a laboratory status. The technical characteristics of the sensors are known and some tests have been performed showing the potential of the equipment. An assessment is required by OPD on whether or not the performance achieved is adequate for the task and whether the complex read-out is acceptable. The requirement for the equipment should be reaffirmed.

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If further needs exist a very careful survey of Engineer Corps. development should be conducted by GSD.

5. CS-5 receiver improvements. This equipment was evaluated by SPS against a dissimilar piece of equipment and found (not surprisingly) to be different. It is not clear that the differences and reported dissatisfaction are related. If the equipment were "improved" and the direction of the "improvement" is not defined, the probability of finding a market is dubious. The resolution of this functional question may best be handled by OPD.

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cc:

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C/OPD

C/GSD

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